OM protein -

protein search, using sw model

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Result
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Maximum Match 100%
Listing first 45 summaries
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Maximum DB
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Perfect score:
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NDC2_FLART
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DB83_RAT
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CRS3_HORSE
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RECE_CHLMU
RECE_CHLMU
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rattus norv
flaveria ra
flaveria ra
equus cabal
homo sapien
chlamydia t
cescherichia
racescerichia
pichia past
gallus gall
pisum sativ
saccharomyc
methanococc
porrelia pu
homo sapien
solanum tub
solanum tub
solanum tub
triticum ae
pisaster oc
bacillus su
triticum ae
pisaster oc
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kenopus lae
klebsiella
salmonella
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microcebus
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DSBE_PASMU	MAL_CANFA	YNR9_YEAST	LMA4_HUMAN	DNBI_VZVD	TLR2_MOUSE	TLR2_CRIGR	PAN3_YEAST	HSF2_CHICK	P69_MYCGE	HSF2_HUMAN	HSF2_MOUSE
Q9cpm6	Q28296	P53880	Q16363	P09246	Q9qun7	Q9r1f8		P38530	P47533	Q03933	P38533
pasteurella					mus musculu					homo sapie	mus musculu

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RESCRIPTION OF THE PROPERTY OF
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01-NOV-1997 (Rel. 35, 0
01-NOV-1997 (Rel. 35, 1
16-OCT-2001 (Rel. 40, 1
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                                                                                                                                                                                                                                                                                                                              the European Bloinformatics Institute. There are no restrictions on its use by non-profit institutions as long as its content is in no way modified and this statement is not removed. Usage by and for commercial entitles requires a license agreement (See http://www.isb-sib.ch/announce/or send an email to license@isb-sib.ch).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               MEDIINE-97107437; PubMed-8950177;
Khatri I.A., Kovacs S.V.B., Forstner J.F.;
"Cloning of the cDNA for a rat intestinal Na+/dicarboxylate
cotransporter reveals partial sequence homology with a rat intestinal
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Rattus norvegicus (Rat).
Eukaryota; Metazoa; Chordata;
Mammalia; Eutheria; Rodentia;
                                                                                                                                                                                                                                                      PROSITE;
                                                                                                                                                                                                                                                                                                  EMBL; U51153;
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16-OCT-2001 (Rel. 40, Last annotation update)
Intestinal sodium/dicarboxylate cotransporter
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                                                                                                                                                                                                                                    Sodium transport;
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Score 35; DB Pred. No. 24; 2; Mismatches
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Pred. No. 0.2
); Mismatches
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/FTId=VAR_011718.
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N-LINKED (GLCNAC. . ) (POTENTIAL).
S -> P (IN DBSNP:495335).
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/FTId=VAR_011719.
                                                             POTENTIAL.
F9B74F921BDC8712 CRC64;
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Sciurognathi; Muridae;
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SEQUENCE
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   SEQUENCE FROM N.A.

Isogai T., Ota T., Hayashi K., Sugiyama T., Otsuki T., Suzuki Y.,
Nishikawa T., Nagai K., Sugano S., Shiratori A., Sudo H.,
Wagatsuma M., Hosoiri T., Kaku Y., Kodaira H., Kondo H., Sugawara
Takahashi M., Chiba Y., Ishida S., Murakawa K., Ono Y., Takiguchi
Watanabe S., Kimura K., Murakami K., Ishii S., Kawai Y., Saito K.,
Yamamoto J., Wakamatsu A., Nakamura Y., Nagahari K., Masuho Y.,
Ninomiya K., Iwayanagi T.;
Submitted (FEB-2000) to the EMBL/GenBank/DDBJ databases.
                                                                                                                                                                                                                       RAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Homo sapiens (Human).
Eukaryota; Metazoa; Chordata;
Mammalia; Eutheria; Primates;
                                                                                                                                  16-OCT-2001 (Rel.
16-OCT-2001 (Rel.
16-OCT-2001 (Rel.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       HUMAN
                                                 Eukaryota;
Mammalia;
                                                              Rattus norvegicus (Rat)
Eukaryota; Metazoa; Cho
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             EMBL; AK001387; BAA91665.1; -.
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P57088;
                          Mammalia; Eutheria;
NCBI_TaxID-10116;
                                                                                                              DB83 protein
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-!- SIMILARITY: BELONGS TO THE UPFO121 FAMILY.
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16-OCT-2001 (Rel.
15-JUN-2002 (Rel.
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                                                 Rodentia;
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9C481A13EECACB16 CRC64;
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                                              Craniata; Vertebrata; Euteleostomi; Sciurognathi; Muridae; Murinae; Rat
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REIS_TODPA
RD REIS_T
AC P28820
DT 01-NOV
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DE Retino
OS Todaro
OC Eukary
OC Oegops
OX NCBI_T
RN [1]
RR MEDLIN
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RA HARA
RI FEBS
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Matches 6
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P23820;
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                                                                                                                                                                                                                                                                                                                      Todarodes pacificus (Japanese flying squid).
Eukaryota; Metazoa; Mollusca; Cephalopoda; Coleoidea;
Oegopsida; Ommastrephidae; Todarodes.
                                                                                                                                                                                                                                                                                                                                                            01-NOV-1991 (Rel. 20, Created)
01-NOV-1991 (Rel. 20, Last sequence update)
01-FEB-1996 (Rel. 33, Last annotation update)
Retinochrome (Retinal photoisomerase).
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         MEDLINE=99087491; PubMed=9872456;
 retinochrome of the squid, FEBS Lett. 335:94-98(1993)
                                                                                                                Uematsu J., Hara-Nishimura I., Wada K., Matsubara "Amino-terminal sequence of squid retinochrome."; Photobiochem. Photobiophys. 13:197-201(1986).
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                                                                                                                                                                                                                                                                                                            NCBI_TaxID=6637
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        FRANSMEM
                                     Amino acid sequence surrounding the
                                                     Hara-Nishimura I.,
                                                                 MEDLINE-94063090; PubMed-8243675;
                                                                                         SEQUENCE OF
                                                                                                                                                                    SEQUENCE OF 1-15 AND 114-128
                                                                                                                                                                                                         photoisomerase
                                                                                                                                                                                                                    Cloning and nucleotide sequence of cDNA for
                                                                                                                                                                                                                                               iara-Nishimura
                                                                                                                                                                                                                                                           MEDLINE-91032043; PubMed-2226795;
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SUBCELLULAR LOCATION: Integral membrane pr
TISSUE SPECIFICITY: HIGHLY EXPRESSED IN TH
SIGNIFICANTLY IN BRAIN, LUNGS AND KIDNEYS.
SIMILARITY: BELONGS TO THE UPF0121 FAMILY.
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                                                                                                                                                                                            oisomerase from the squid retina.";
Lett. 271:106-110(1990).
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121
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27983 MW;
                                                     Kondo M., Nishimura
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75.0%;
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    SI
                          Todarodes
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Pred. No.
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OD07BE5911CAD6AE CRC64;
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                         ura M., Hara R., He retinal-binding spacificus.";
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  ACTING
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CATALYST IN THE LIGHT TO CONVERT VARIOUS ISOMERS OF RETINAL INTO 11-CIS, THE FORM THAT IS REQUIRED BY OPSIN TO RESYNTHESIZE
EIN. MYELOID MEMBRANE BODIES OF THE INNER
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SUBCELLULAR LOCATION: TISSUE SPECIFICITY: M N: INTEGRAL MEMBRANE MAINLY STORED IN MY ANE PROTEIN.

SIMILARITY: OPSIN SUBFAMILY. BELONGS TO FAMILY 1 OF G-PROTEIN COUPLED RECEPTORS.

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Query Match
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Matches 6
                             BINDING
CARBOHYD
SEQUENCE
                                                                                                                                                                                     Pfam: PF00001; 7tm_1; 1
PROSITE; PS00237; G_PROTEIN_RECEP_F1_1;
PROSITE; PS50262; G_PROTEIN_RECEP_F1_2;
PROSITE; PS00238; OPSIN; 1
                                                                                                                                                                                                                                          EMBL; X57143;
                                                                                                                                                                       G-protein
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                                                                                    DOMAIN
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6; Conservative
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44
55
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                               AA;
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33490
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208
230
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255
264
289
301
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        77.3%;
75.0%;
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Score 34; DB
Pred. No. 20;
2; Mismatches
2.
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                                                                                                                 EXTRACELLULAR (POTENTIAL) 3 (POTENTIAL). CYTOPLASMIC (POTENTIAL).
                                                                                                                                         EXTRACELLULAR (POTENTIAL).

1 (POTENTIAL).

CYTOPLASMIC (POTENTIAL).

2 (POTENTIAL).
                               N-LINKED (GLCNAC. . .) (F
CBB37317486B27FC CRC64;
                                                              EXTRACELLULAR (POTENTIAL)
7 (POTENTIAL)
                                                                                           EXTRACELLULAR 5 (POTENTIAL).
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CYTOPLASMIC (
                                             RETINAL CHROMOPHORE.
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280 LFPVLLFL LFPLLIFL 287 9 Gaps

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NU5C_FLARA
Q32238;
01-NOV-1997
                 Spermatophyta; Magnoliophyta; Asteridae; euasterids II; Aste Helenieae; Flaveria. NCBI_TaxID=41578;
                                                              Chloroplast.
Eukaryota; Viridiplantae;
                                                                                              NDHF
                                                                                                    032238;
01-NOV-1997 (Rel. 35, Created)
01-NOV-1997 (Rel. 35, Last sequence update)
01-NOV-1997 (Rel. 35, Last annotation update)
                                                                                                                                                                        FLARA
 SEQUENCE FROM N.A
                                                                                    Flaveria ramosissima
                                                                                                                                                                                   σ
                                                                                                                                                              STANDARD;
                                         Streptophyta; Embryophyta; Tracheophyta; yta; eudicotyledons; core eudicots; Asterales; Asteraceae; Asteroideae;
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                                                                                                        chloroplast
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                                                                                                                                                                                                                             TISSUE-Ampulla;
MEDLINE-98422318; PubMed-9748582;
Schambony A., Gentzel M., Wolfes H., Raida M., Neumann
                                                                                                                                                                                                                                                                                                                                                     15-JUL-1998 (Rel. 36, Created)
15-JUL-1998 (Rel. 36, Last sequence update)
16-OCT-2001 (Rel. 40, Last annotation update)
Cysteine-rich secretory protein-3 precursor (CRISP-3).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         PRINTS; PR01434; NADHDHĞNASE5.
Oxidoreductase; NAD; Plastoquinone; Chloroplast,
SEQUENCE 741 AA; 83948 MW; EOBD194ABEF0B9FB CRC64;
                                                                                                                                                                                    Biochim.
                                                                                                                                                                                                                                                                     SEQUENCE FROM
                                                                                                                                                                                                                                                                                          NCBI_TaxID-9796;
                                                                                                                                                                                                                                                                                                      Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Perissodactyla; Equidae; Equus.
                                                                                                                                                                                                                                                                                                                                                                                                                                HORSE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Pfam; PF00361; oxidored_q1; 1.
Pfam; PF00662; oxidored_q1_N; 1.
Pfam; PF01010; oxidored_q1_C; 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 InterPro; IPR003916; NADHub_oxred5.
InterPro; IPR001750; Oxidored_g1.
InterPro; IPR002128; Oxidored_g1_C.
InterPro; IPR001516; Oxidored_g1_N.
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                                                                                                       Chim. Blophys. Acta 1387:206-216(1998).
SUBCELLULAR LOCATION: SECRETED; IN NEUTROPHILS, LOCALIZED IN SPECIFIC GRANULES (BY SIMILARITY).
TISSUE SPECIFICITY: EXPRESSED IN THE SALIVARY GLAND, IN THE AMPULLA AND THE SEMINAL VESICLE.
SIMILARITY: BELONGS TO A FAMILY THAT GROUPS MAMMALIAN SCP/TPX1; INSECTS AG3/AG5; FUNGI SC7/SC14 AND PLANTS PR-1.
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5; Conser
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ACTIVITY: NADH + plastoquinone = NAD(+) + plastoquinol.
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62.5%;
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Pred. No.
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Pfam; PF00188; SCP; 1.

PRINTS; PR00837; V5TPXLIKE.

ProDom; PD000542; Allrgn_V5/Tpx1; 1.

SMART; SM00198; SCP; 1.

PROSITE; PS01009; SCP_AG5_PR1_SC7_1; 1.

PROSITE; PS010101; SCP_AG5_PR1_SC7_2; 1.

Signal; Multigene family.

POTENTIAL.

1 22 POTENTIAL.
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SEQUENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Arunachalam B., Phan U.T., Geuze H.J., Cresswell P.;
"Enzymatic reduction of disulfide bonds in lysosomes: characterizatiof of a gamma-interferon-inducible lysosomal thiol reductase (GILT).";
Proc. Natl. Acad. Sci. U.S.A. 97:745-750(2000)
-!- FUNCTION: CLEAVES DISULFIDE BONDS IN PROTEINS BY REDUCTION. MAY
FACILITATE THE COMPLET UNFOLDING OF PROTEINS DESTINED FOR
LYSOSOMAL DEGRADATION. MAY BE INVOLVED IN MHC CLASS II-RESTRICTE
use by non-profit institutions as long modified and this statement is not removed. entitles requires a license agreement (See or send an email to license@isb-sib.ch).
                                                                                                                                                           This SWISS-PROT entry is copyright. It is produced through a collaboration between the Swiss Institute of Bioinformatics and the EMBL outstation the European Bioinformatics Institute. There are no restrictions on its
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     SEQUENCE FROM N.A. MEDLINE-88298888; PubMed-3136170;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Homo sapiens (Human).
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  EMBL; AJ001400; CAA04729.1;
HSSP; P04284; 1CFE.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   "Molecular and biochemical characterization
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 NCBI_TaxID=9606;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      interferon-inducible protein.";
J. Biol. Chem. 263:12036-12043(1988).
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                                                                                                                                                                                                                                                                                                               ANTIGEN PROCESSING.
SUBCELLULAR LOCATION: Lysosomal.
SUBCELLULAR LOCATION: Lysosomal.
INDUCTION: EXPRESSED CONSTITUTIVELY IN ANTIGEN-PRESENTING CELL
AND INDUCED BY IFN-GAMMA IN OTHER CELL TYPES.
PTM: N-GLYCOSYLATED. SUGAR CHAINS CONTAIN MANNOSE-6-PHOSPHATE.
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245 AA;
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PIR; A43708; A43708. Genew; HGNC:5398; IF

EMBL; J03909; AAA36105.1; -. EMBL; AF097362; AAF04618.1;

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RESULT RECULT RE
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DISULFID
CARBOHYD
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Q9PKW5;
16-OCT-2001
16-OCT-2001
16-OCT-2001
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CONFLICT
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                                            This SWISS-PROT entry is copyright. It is produced through between the Swiss Institute of Bioinformatics and the EM the European Bioinformatics Institute. There are no restruse by non-profit institutions as long as its content modified and this statement is not removed. Usage by and entitles requires a license agreement (See http://www.isb-sorsend an email to license@isb-sib.ch).
                                                                                                                                                                                                                                           "Genome sequences of Chlamydia trachomatis MoPn and Chlamydia pneumoniae AR39.";
Nucleic Acids Res. 28:1397-1406(2000).
-I- FÜNCTION: THE RECF PROTEIN IS INVOLVED IN DNA METABOLISM; IT IS REQUIRED FOR DNA REPLICATION AND NORMAL SOS INDUCIBILITY. RECF REQUIRED FOR DNA REPLICATION AND NORMAL SOS INDUCIBILITY. RECF BINDS PREFERENTIALLY TO SINGLE-STRANDED, LINEAR DNA. IT ALSO SEE TO BIND ATP (BY SYMILARITY).
-I- SUBCELLULAR LOCATION: Cytoplasmic (By similarity).
-I- SIMILARITY: BELONGS TO THE RECF FAMILY.
                                                                                                                                                                                                                                                                                                                                                                                                                                               SEQUENCE FROM N.A.

STRAIN-MOPN / Nigg;

MEDILINE-20150255; pubMed-10684935;

Read T.D., Brunham R.C., Shen C., Gill S.R., Heidelberg White O., Hickey E.K., Peterson J., Utterback T., Berry Linher K., Weidman J., Khouri H., Craven B., Bowman C., Gwinn M., Nelson W., DeBoy R., Kolonay J., McClarty G., Gwinn M., Nelson W., DeBoy R., Kolonay J., McClarty G., Eisen J., Fraser C.M.;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      CHLMU
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Pfam; PF03227; GILT; 1.
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Bacteria; Chlamydiales;
NCBI_TaxID=83560;
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  AE002301; AAF39207.1; TC0346; -.
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7; Conservative
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(Rel. 40, Last sequence update)
(Rel. 40, Last annotation updat
tion and repair protein recf.
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77.8%;
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POTENTIAL.
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Pred. No.
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H -> L (IN REF. 1).
IVCHEFFEDERSLPLCALYAPGLSPDTIMECAMGDRGMO
LMHANAQRTDALQPPHEYVPWVTVNGKPLEDQTQLLTLVCQ
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K., Bass
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                                     RESULT
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Query Match
Best Local
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TIGRFAMS; TIGR00611; recf; 1.
PROSITE; PS00617; RECF_1; 1.
PROSITE; PS00618; RECF_2; 1.
DNA damage; DNA replication; DN
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084077;
16-0CT-2001 (
16-0CT-2001 (
16-0CT-2001 (
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STRAIN-D/UW-3/Cx;
MEDLINE-99000809; PubMed-9784136;
Stephens R.S., Kalman S., Lammel C.
Mitchell W.P., Olinger L., Tatusov
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SEQUENCE
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                                                                      InterPro: IPR001238; RecF.
InterPro: IPR003395; SMC_N.
Pfam; PF02463; SMC_N; 1.
TIGRFAMs; TIGR00611; recf; 1.
PROSITE; PS00617; RECF_1; 1.
PROSITE; PS00618; RECF_2; 1.
DNA damage; DNA replication; DNA-binding;
                                                                                                                                                                                                  use by non-profit institutions as long as its content modified and this statement is not removed. Usage by ar entitles requires a license agreement (See http://www.isb
                                                                                                                                                                                                                                    This SWISS-PROT entry is copyright. It is produced through a continuous the Swiss Institute of Bioinformatics and the EMBL the European Bioinformatics Institute. There are no restrict
                                                                                                                                                                                                                                                                                                                                                    Chlamydia trachomatis.";
Science 282:754-759(1998).
-j- FUNCTION: THE RECF PRO
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Chlamydia trachomatis. Bacteria; Chlamydiales;
                                     NP_BIND
                                                                                                                                                                              or send an email to license@isb-sib.ch).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ATP-binding; Complete proteome NP BIND 30 37 A
                                                           DNA damage; I
ATP-binding;
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                                                                                                                                                                                                                                                                                 FUNCTION: THE RECF PROTEIN IS INVOLVED IN DNA METABOLISM;
REQUIRED FOR DNA REPLICATION AND NORMAL SOS INDUCIBILITY.
BINDS PREFERENTIALLY TO SINGLE-STRANDED, LINEAR DNA. IT AL
TO BIND ATP (BY SIMILARITY).
SUBCELLULAR LOCATION: Cytoplasmic (By similarity).
SIMILARITY: BELONGS TO THE RECF FAMILY.
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365 AA;
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(Rel. 40, Last sequence update)
(Rel. 40, Last annotation update)
tion and repair protein recf.
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 Score 33;
Pred. No.
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; FD97CE97B10C8958 CRC64;
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                                       ATP (POTENTIAL).
; CC05A49475838A0B CRC64;
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7 R.L., Zh
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30-MAY-2000 (Rel. 39, Last
16-OCT-2001 (Rel. 40, Last
Hypothetical protein ydgf.
YDGF OR B1600 OR Z2594 OR E
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Alba H., Baba T., Fujita K., Hayashi K., Inada T., Isono K.,
Itoh T., Kasai H., Kashimoto K., Kimura S., Kitakawa M.,
Kitagawa M., Makino K., Miki T., Mizobuchi K., Mori T.
Motomura K., Nakade S., Nakamura Y., Nashimoto H., Nishio Y.,
Oshima T., Saito N., Sampei G., Seki Y., Sivasundaram S.,
Tagami H., Takeda J., Takemoto K., Takeuchi Y., Mada C.,
Yamamoto Y., Horiuchi T.;
Yamamoto Y., Horiuchi T.;
*A 570-kb DNA seguence of the Escherichia coli K-12 genome
corresponding to the 28.0-40.1 min region on the linkage map.,
DNA Res. 3:363-377(1996).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              YDGF_ECOLI
P77412;
30-MAY-2000
                                                                                                                    STRAIN-0157:H7 / RIMD 0509952;

MEDLINB-21156231; PubMed-11258796;

Hayashi T., Makino K., Ohnishi M., Kurokawa K., Ishii K., Yokoy:
Hayashi T., Makino E., Nakayama K., Murata T., Tanaka M., Tobe '
Iida T., Takami H., Honda T., Sasakawa C., Ogasawara N., Yasuna:
Kuhara S., Shiba T., Hattori M., Shinagawa H.;

"Complete genome sequence of enterohemorrhagic Escherichia coli
0157:H7 and genomic comparison with a laboratory strain K-12.";

DNA Res. 8:11-22(2001)
                                                                                                                                                                                                                                                                                                        STRAIN-0157:H7 / EDL933 / ATCC 700927;

MEDLINE-21074935; PubMed-11206551;

Perna N.T., Plunkett G. III, Burland V., Mau B., Glasner J.D.,

Rose D.J., Mayhew G.F., Evans P.S., Gregor J., Kirkpatrick H.A.,

Posfai G., Hackett J., Klink S., Boutin A., Shao Y., Miller L.,

Grotbeck E.J., Davis N.W., Lim A., Dimalanta E.T., Potamousis K.,

Apodaca J., Anantharaman T.S., Lin J., Yen G., Schwartz D.C.,

Welch R.A., Blattner F.R.;

"Genome sequence of enterohaemorrhagic Escherichia coli 0157:H7."
This SWISS-PROT entry is copyright. It is produced through a collaboration between the Swiss Institute of Bioinformatics and the EMBL outstation - the European Bioinformatics Institute. There are no restrictions on its
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               STRAIN=K12 / MG1655;
MEDLINE=97426617; PubMed=9278503;
                                                                                                                                                                                                                                                                               SEQUENCE FROM
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Science
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Riley M., Collado-Vides J., Glasner J.D., Rode (
Gregor J., Davis N.W., Kirkpatrick H.A., Goeden
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       SEQUENCE FROM N.
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                                                Res. 8:11-22(2001).
SUBCELLULAR LOCATION: Integral membrane protein (Potential)
SIMILARITY: BELONGS TO THE SMALL MULTIDRUG RESISTANCE (SMR)
PROTEIN FAMILY.
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nce 277:1453-1474(1997).
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., Rode C.K., Mayhew G.F.,
Goeden M.A., Rose D.J.,
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Tobe T.,
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RESULT 12
CYB_RHORU
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EMBL; D90803; BAA15339.1; -.
EMBL; D90802; BAA15334.1; -.
EMBL; AE005383; AAC5587.1; -.
EMBL; AE002558; BAB35729.1; -.
ECOGene; EG13927; ydgF.
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SEQUENCE 12
                                                                                                                                                                                                             the genes for the cytochrome bc1-complex.";

Mol. Gen. Genet. 224:373-382(1990).

-i- FUNCTION: COMPONENT OF THE UBIQUINOL-CYTOCHROME C RE
COMPLEX (COMPLEX III OR CYTOCHROME B-C1 COMPLEX), WH
RESPIRATORY CHAIN THAT GENERATES AN ELECTROCHEMICAL
COUPLED TO ATP SYNTHESIS.

-i- COFACTER: TWO HEME GROUPS (B562 AND B566) WHICH ARE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 CYB_RHORU P23134;
                                                                    This SWISS-PROT entry is copyright. It is produced through a copyred three through a copyright of Bioinformatics and the EMBL the European Bioinformatics Institute. There are no restrict use by non-profit institutions as long as its content is modified and this statement is not removed. Usage by and for entitles requires a license agreement (See http://www.isb-sib.or send an email to license@isb-sib.ch).
                                                                                                                                                                                                                                                                            Majewski C., Trebst A.;
"The pet genes of Rhodospirillum rubrum: cloning and sequencing the genes for the cytochrome bcl-complex.";
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                                                                                                                                                                                                                                                                                                                                                                                   Bacteria; Proteobacteria; Rhodospirillum.
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                                    EMBL; X55387; CAA3: PIR; S12257; CBQFR
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01-NOV-1991 (Rel.
30-MAY-2000 (Rel.
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ene; EG13927; ydys.
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m; PF00893; DUF7; 1.
m; PF00893; DUF7; 1.
portein; Transmembrane; Transf
porteNTIAL.
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SUBUNIT: THE MAIN SUBUNITS OF COMPLEX B-C1 ARE:
CYTOCHROME C1 AND THE RIESKE PROTEIN.
SIMILARITY: BELONGS TO THE CYTOCHROME B FAMILY.
Pro; IPRO00179; Cyt_b_b6.
PF00032; cytochrome_b_C;
PF00033; cytochrome_b_N;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TRANSMEM
SEQUENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        This SWISS-PROT entry is copyright. It is produced through a collaboration between the Swiss Institute of Bioinformatics and the EMBL outstation—the European Bioinformatics Institute. There are no restrictions on its use by non-profit institutions as long as its content is in no way modified and this statement is not removed. Usage by and for commercial entities requires a license agreement (See http://www.isb-sib.ch/announce/or send an email to license@isb-sib.ch).
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_PICPA
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METAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    EMBL; U58140; AAC49402.1; -...
Interpro; IPRO01841; Znf_ring.
SMART; SM00184; RING; 1.
Transmembrane; Peroxisome.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            *Characterization of a novel component of the import apparatus using fluorescent peroxisomal EMBO J. 15:3275-3285(1996).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Pichia pastoris (Yeast).
Eukaryota; Fungi; Ascomycota;
Saccharomycetales; Saccharomy
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            01-NOV-1997 (Rel. 35, Created)
01-NOV-1997 (Rel. 35, Last sequence update)
16-CCT-2001 (Rel. 40, Last annotation update)
Peroxisome assembly protein PASIO (Peroxin-12).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Kalish J.E., Keller G.-A.,
Cregg J.M., Gould S.J.;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       MEDLINE=96283626; PubMed=8670828; Kalish J.E., Keller G.-A., Morrell J.C.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Q01961;
01-NOV-1997
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                -!- FUNCTION: REQUIRED FOR PROTEIN IMPORT INTO PEROXISOMES.
-!- SUBCELLULAR LOCATION: Integral membrane protein. Peroxi-
-!- SIMILARITY: BELONGS TO THE PEROXIN 12 FAMILY.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           SEQUENCE FROM N.A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               PEX12 OR PAS10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           PEXC_PICPA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              SEQUENCE
   15-JUL-1999
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           TRANSMEM
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                                                                                                                                                                                                                                                                                                           1 TLFPVLLFL
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                                                                                                                                                                                                                                               TLFPASIFL
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ;; PS00192; CYTOCHROME_B_HEME; 1
;; PS00193; CYTOCHROME_B_QO; 1
;; PS00193; CYTOCHROME_B_QO; 1
;; PS00193; CYTOCHROME_B_OO; 1
; PS01104
; PS01105
; PS00192
; PS00192; PS00193; PS00193
                                                                                                                                                                                                                                                                                                                                                                                   6;
                                                                                                                                                                                                                                                                                                                                                                                                                   Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   171
267
409 AA;
       (Rel. 38, Created)
                                                                                                                                                                                                                                                                                                                                                                                   Conservative
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                                                                          STANDARD;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Ascomycota; Saccharomycotina; Saccharomycetes; Saccharomycetaceae; Pichia.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Respiratory chain; Heme; Transmembrane.
94 IRON 1 (HEME B562 AXIAL LIGAND).
108 IRON 2 (HEME B566 AXIAL LIGAND).
195 IRON 2 (HEME B562 AXIAL LIGAND).
209 IRON 1 (HEME B566 AXIAL LIGAND).
46369 MW; F19452FDA318BE6F CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       47591 MW;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                72.7%;
85.7%;
                                                                                                                                                                                                                                                                                                                                                                                                               72.7%;
66.7%;
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                                                                                                                                                                                                                                                                                                                                                                            Score 32; DB 1;
Pred. No. 64;
1; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                POTENTIAL.
POTENTIAL.
; 1F2DB79A957C3B7F CRC64;
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                                                                              519
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63;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           B
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            peroxisomal protein
l proteins.";
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          0
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                                                                                                                                                                                                                                                                                                                                                                                                                                                   Length 409;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       0;
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RESULT 15
CVCA_PEA
ID CVCA_PEA
AC P13915;
DT 01-JAN-1990 (
DT 01-JAN-1990 (
DT 16-CCT-2001 (
DE CCONvicilin pr
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Best Local
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SEQUENCE FROM N.A.
MEDLINE-96107571; PubMed-8563025;
Crawford K., Weissig H., Binette F., Millan J.L., Goetinck P.
Crawford K., Weissig H., Binette F., Millan J.L., Goetinck P.
"Tissue-nonspecific alkaline phosphatase participates in the
"Tissue-nonspecific alkaline phosphatase participates in the
"Tissue-nonspecific alkaline phosphatase participates in the
                                                                                                                                                                                                                                                                                         CARBOHYD
CARBOHYD
CARBOHYD
                                                                                                                                                                                                                                                                                                                                   MOD_RES
ACT_SITE
CARBOHYD
CARBOHYD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           This SWISS-PROT entry is copyright. It is produced through a collaboration between the Swiss Institute of Bioinformatics and the EMBL outstation the European Bioinformatics Institute. There are no restrictions on its use by non-profit institutions as long as its content is in no way modified and this statement is not removed. Usage by and for commercial entities requires a license agreement (See http://www.isb-sib.ch/announce/or send an email to license@isb-sib.ch).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Dev. Dyn. 204:48-56(1995).

-i- CATALYTIC ACTIVITY: An orthophosphoric monoeste
alcohol + phosphate.
-i- SUBUNIT: HOMODIMER (BY SIMILARITY).

SUBCELLULAR LOCATION: Attached to the membrane
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ALPL.
Gallus gallus (Chicken).
Gallus gallus (Chicken).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      15-JUL-1999 (Rel. 38, Last sequence update)
15-JUL-1999 (Rel. 38, Last sequence update)
15-JUL-1999 (Rel. 38, Last sequence update)
Alkaline phosphatase, tissue-nonspecific isozyme pr
(EC 3.1.3.1) (AP-TNAP) (Liver/bone/kidney isozyme).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Interpro; IPR001952; Alk_phosphtse.
Pfam; PF00245; alk_phosphatase; 1.
PRINTS; PR00113; ALKPHPHTASE.
ProDom; PD001868; Alk_phosphtse; 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    EMBL; U19108; AAA92562.1;
HSSP; P00634; ZANH.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Archosauria; Aves;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  NCBI_TaxID=9031;
                                                                                                                                                                                                                                                                                                                                                                                                                                                 PROSITE; PS00123; ALKALINE_PHOSPHATASE;
Hydrolase; Zinc; Magnesium; Phosphoryla
                                                                                                                                                                                                                                                                                                                                                                                                                                                                               SMART; SM00098; alkPPc;
                                                                                                                                                              507
                                                                                                                                                                                                                                                                             SEQUENCE
                                                                                                                                                                                                                                                                                                                                                                                                                           SIGNAL
                                                                                                                                                                                                                                                                                                                                                                                                                                       Multigene
                                                                                                                                                                                      1 TLFPVLLFL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       SIMILARITY: BELONGS TO THE ALKALINE PHOSPHATASE FAMILY.
                                                                                                                                                             TLLPVLLLL
                                                                                                                                                                                                                  Similarity 77.17; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                     family; Glycoprotein;
                                                                                                                                                                                                                                                                          109
109
139
229
278
278
302
429
519 /
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109
139
229
278
302
429
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519
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                                                                                                                                                                                                                                   72.78;
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BY SIMILARITY
N-LINKED (GLCNAC...
                                                                                                                                                                                                                     0
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                                                                                                                                                                                                                                   Score 32; DB
Pred. No. 80;
                                                                                                                                                                                                                                                                                                                                                                                                          ALKALINE PHOSPHATASE,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Craniata; Vertebrata; Euteleostomi;
; Galliformes; Phasianidae; Phasiani
                                                                                                                                                                                                                                                                                                                                                                                                                           POTENTIAL
                                                                                                                                                                                                                                                                                                                                                                                              ISOZYME.
                                                                                                                                                                                                                     Mismatches
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                                                                                                                                                                                                                                                  Length 519;
                                                                                                                                                                                                                                                                              CRC64;
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                                                                                                                                                                                                                                                                                                                                                                              SIMILARITY)
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                                                                                                                                                                                                                                                                                                                                                                                                            TISSUE-NONSPECIFIC
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 skin
                                                                                                                                                                                                                       0,:
                                                                                                                                                                                                                     Gaps
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(Rel. 13, (Rel. 13, (Rel. 40,

Created)
Last sequence update)
Last annotation updat

update)

STANDARD;

PRT;

571

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Search completed: March 14, 2003, 05:40:56 Job time: 1.67416 secs
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Best Local S
Matches 6
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STRAIN-cv. Feltham First;
MEDLINE-8326208; PubMed-3415641;
Bown D., Ellis T.H.N., Gatehouse J.A.;
"The sequence of a gene encoding convictlin from pea (Pisum sativum the N-terminus.";
blochem. J. 251:717-726(1988).
                                                                                                                                                                                                                                                                                                                                                     SIGNAL
                                                                                                                                                                                                                                                                                                                                                                                               EMBL; X06398; CAA29695.1; -.
PIR; S00566; S00566.
HSSP; P02853; 2PHL.
InterPro; IPR001113; Seedstore_7s.
Pfam; PF00546; Seedstore_7s; 1.
Pfam; PF02808; Seedstore_7s_C; 1.
Seed storage protein; Multigene family; Signal.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   This SWISS-PROT entry is copyright. It is produced through a collaboration between the Swiss Institute of Bioinformatics and the EMBL outstation the European Bioinformatics Institute. There are no restrictions on its use by non-profit institutions as long as its content is in no way modified and this statement is not removed. Usage by and for commercial entities requires a license agreement (See http://www.isb-sib.ch/announce/or send an email to license@isb-sib.ch).
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Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;

Spermatophyta; Magnoliophyta; eudicotyledons; core eudicots; Rosidae;

eurosids I; Fabales; Fabaceae; Papilionoideae; Vicieae; Pisum.
                                                                                                                                                                                                                                                                                                                              SEQUENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         -1- SIMILARITY: BELONGS TO THE 7S SEED STORAGE PROTEIN FAMILY.

    -!- FUNCTION: SEED STORAGE PROTEIN.
    -!- SUBCELLULAR LOCATION: COTYLEDONARY MEMBRANE-BOUND VACUOLAR PROTEIN

                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              NCBI_TaxID=3888;
                                                                                                             9
                                                                                                                                                             3 FPVLLFL 9
                                                                                                        ||:||||
| FPLLLFL 15
                                                                                                                                                                                                                   Similarity 85.7
6; Conservative
                                                                                                                                                                                                                                                                                                                         571 AA;
                                                                                                                                                                                                                                                                                                                                                        29
                                                                                                                                                                                                                                                                                                                      571 CV
; 66989 MW;
                                                                                                                                                                                                                                          72.78;
                                                                                                                                                                                                             Score 32; DB 1; Length 571; Pred. No. 88; 1; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                         CONVICILIN.
; 749CFBEB2D16D57B CRC64;
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SETTER REPRESENTATION OF THE PROPERTY OF THE P